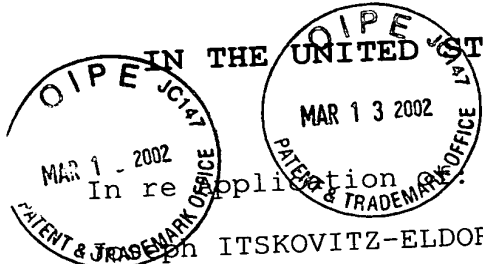


PCT #4

JC20 Rec'd PCT/PTO 13 MAR 2002



UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: ITSKOVITZELDOR=1

In re application of ITSKOVITZ-ELDOR et al.

Appln. No.: 09/979,001

Filed: November 14, 2001

For: DIFFERENTIATED HUMAN  
EMBRYOID CELLS AND A  
METHOD FOR PRODUCING THEM )

Art Unit:

Examiner:

Confirmation No.

Washington, D.C.

March 13, 2002

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir :

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above- identified application, and any other application relying on the filing date of the above-identified application or cross- referencing it as a related application.

1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed before the mailing date of a first office action on the merits.

2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., Form PTO/SB/08A) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached.

3. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

4. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant(s) reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

BROWDY AND NEIMARK  
Attorneys for Applicant(s)

By: 

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1

of 3

**Complete if Known**

Application Number	09/979,001
Filing Date	November 14, 2001
First Named Inventor	Joseph ITSKOVITZ-ELDOR et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	ITSKOVITZELDOR=1

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Number	Kind Code <sup>5</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	AA	WO 96/16162	A1	NATIONAL JEWISH CENTER FOR IMMUNOLOGY AND RESPIRATORY MEDICINE	05-30-1996		
	AB	WO 00/34525	A1	VISTAGEN, INC.	06-15-2000		

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	AC	Gerald BAIN et al., "Embryonic Stem Cells Express Neuronal Properties <i>in Vitro</i> ", <u>Developmental Biology</u> , 1995, pp. 342-357, vol. 168	
	AD	Mario R. CAPECCHI, "Altering the Genome by Homologous Recombination", <u>Science</u> , 1989, pp. 1288-92, vol. 244	
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	AK	M. LEVINSON-DUSHNIK et al., "Involvement of Hepatocyte Nuclear Factor 3 in Endoderm Differentiation of Embryonic Stem Cells", <u>Molecular and Cellular Biology</u> , July 1997, pp. 3817-3822, vol. 17, no. 7	
	AL	M.H. LINDENBAUM et al., "An <i>in vitro</i> Globin gene Switching Model Based on Differentiated Embryonic Stem Cells", <u>Genes &amp; Development</u> , 1990, pp. 2075-2085, vol. 4	

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SignatureDate  
Considered

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Sheet 2

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## Complete if Known

Application Number	09/979,001
Filing Date	November 14, 2001
First Named Inventor	Joseph ITSKOVITZ-ELDOR et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	ITSKOVITZELDOR=1

## OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
AM		C.L. MUMMERY et al., "Fibroblast growth Factor-Mediated Growth Regulation and Receptor Expression in Embryonal Carcinoma and Embryonic Stem Cells and Human Germ Cell Tumors", <u>Biochemical and Biophysical Research Communications</u> , 1993, pp. 188-195, vol. 191, no. 1	
AN		T. NAKAMURA et al., "A Selective Switch-On System for Self-Renewal of Embryonic Stem Cells Using Chimeric Cytokine Receptors", <u>Biochemical and Biophysical Research Communications</u> , 1998, pp. 22-27, vol. 248, no. 1	
AO		M.F. PERA et al., "Human Embryonic Stem Cells", <u>Journal of Cell Sciences</u> , 2000, pp. 5-10, vol. 113	
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AQ		E. ROBERTSON, "Embryo-Derived Stem Cell Lines", from <u>Teratocarcinoma and Embryonic Stem Cells: A Practical Approach</u> , 1987, pp. 71-112, Oxford	
AR		ROSSANT et al., "Towards a Molecular Genetic Analysis of mammalian Development", <u>Trends in Genetics</u> , 1989, pp. 277-83, vol. 5, no. 8	
AS		Sanchez, A., Jones, W.K., Gulick, J., Doetschman, T., Robbins, J., "Myosin Heavy Chain Gene Expression in Mouse Embryoid Bodies", <u>Journal of Biological Chemistry</u> , 266:22419-26(1991);	
AT		Sassoon, D.A., Garner, I., Buckingham, M., "Transcripts of $\alpha$ -cardiac and $\alpha$ -skeletal actins are early markers for myogenesis in the mouse embryo", <u>Development</u> , 104:155-64(1988);	
AU		Michael J. SHAMLOTT et al. "Derivation of Pluripotent Stem Cells from Cultured Human Primordial germ Cells", <u>Proceedings of the National Academy of Sciences of the United States of America</u> , November 1998, pp. 13726-13731, vol. 95	
AV		Southern, E.M., "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis", <u>Journal of Molecular Biology</u> , 98:503-17(1975).	
AW		J.A. THOMPSON et al., "Pluripotent Cell Lines Derived from Common Marmoset ( <i>Callithrix jacchus</i> ) Blastocysts", <u>Biology of Reproduction</u> , 1996, pp. 254-259, vol. 55	
AX		J.A. THOMPSON et al., "Isolation of a Primate Embryonic Stem Cell Line", <u>Proceedings of the National Academy of Sciences of the United States of America</u> , August 1995, pp. 7844-7848, vol. 92	

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STATEMENT BY APPLICANT**

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Sheet 3

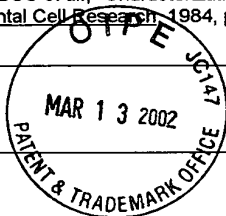
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Application Number	09/979,001
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	AY	J.A. THOMPSON et al., "Primate Embryonic Stem Cells", <u>Current Topics in Developmental Biology</u> , 1998, pp. 133-165, vol. 38	
	AZ	J.A. THOMPSON et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts", <u>Science</u> , November 1998, pp. 1145-7, vol. 282	
	BA	M.V. WILES et al., "Multiple Hematopoietic Lineages Develop from Embryonic Stem (ES) Cells in Culture", <u>Development</u> , 1991, pp. 259-267, vol. 111	
	BB	A.M. WOBUS et al., "Characterization of a Pluripotent Stem Cell Line Derived from a Mouse Embryo", <u>Experimental Cell Research</u> , 1984, pp. 212-219, vol. 152	

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